

From the INTERNATIONAL SEARCHING AUTHORITY

To:		· · · · · · · · · · · · · · · · · · ·		PCT				
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				(PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
1	licant's or agent's file form PCT/ISA/2:			FOR FURTHER ACTION See paragraph 2 below				
	mational application T/US2004/00710		International filing date (te (day/month/year) Priority date (day/month/year)				
	rnational Patent Clas 4N9/31	sification (IPC) or	both national classification	and IPC				
1 '	olicant OMSON LICENS	SING S. A:		· .				
1.	This opinion co	ontains indicati	ons relating to the fol	lowing items:				
	☑ Box No. I	Basis of the opinion						
Box No. II Priority								
	ve step and industrial applicability							
☐ Box No. IV Lack of unity of invention								
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or in applicability; citations and explanations supporting such statement								
☐ Box No. VI Certain documents cited								
1	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
2.	2. FURTHER ACTION							
	written opinion of the applicant characteristic land the second s	a demand for international preliminary examination is made, this opinion will usually be considered to be a vritten opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where he applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the international Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date whichever expires later.							
	For further optio	ons, see Form Po	CT/ISA/220.		•			
3.	For further detail	ils, see notes to	Form PCT/ISA/220.	•				
1								

Name and mailing address of the ISA:



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/007104

	Box	k No). I	Basis of the opinion				
1.	With the	h req lang	gard guage	to the language, this opinion has been established on the basis of the international application in a in which it was field, unless otherwise indicated under this item.				
		lan	nguag	nion has been established on the basis of a translation from the original language into the following which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).				
2.	Witl	h reg	regard to any nucleotide and/or amino acid sequence disclosed in the international application and ssary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:							
	{		a se	quence listing				
	1		table	e(s) related to the sequence listing				
	b. f	orm	at of	material:				
	9		in w	ritten format				
	(1		in co	omputer readable form				
	c. time of filing/furnishing:							
			cont	ained in the international application as filed.				
			filed	together with the international application in computer readable form.				
			furn	ished subsequently to this Authority for the purposes of search.				
3.		ha co	as beo pies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as riate, were furnished.				

4. Additional comments:

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	Box	No. II	Priority			· · · · · · · · · · · · · · · · · · ·				
1.	\boxtimes	The following document has not been furnished:								
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7						and 66.7(a)).			
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66						<i>bis</i> .1 and 66.7	(b)).		
Consequently it has not been possible to consider the validity of the priority claim nevertheless been established on the assumption that the relevant date is the claim							ority claim. Thi	s opinion has d priority date.		
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	3. Additional observations, if necessary:									
	Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Sta	tement								
	Nov	velty (N)		Yes: No:	Claims Claims	1-4				
	Inventive step (IS)			Yes: No:	Claims Claims	1-4				
	Ind	ustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-4				
2.	Cita	ations a	nd explanations				·			
	sec	e separ	ate sheet							•
	Box No. VIII Certain observations on the international application									

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet



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Re Item V

Reference is made to the following documents:

D1: US 2002/067468 A1 (O'CONNOR MICHAEL) 6 June 2002 (2002-06-06)

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document):

An apparatus for adding red light to a polarized light system comprising: a first light source (par.6) and a second light source (par.14); a polarizing beam splitter for combining S-polarized-light from said first light source and P-polarized-light from said second light source (par.10, par.15).

The subject-matter of claim 1 differs from D1 in that it further comprises:

a first multi-layer filter means for rotating the polarization state of the green light from said first light source to the P-polarization state; a second multi-layer filter means for rotating a first multi-layer filter means for rotating said first light source red light to the P-polarization state and said second light source red light to the S-polarization state, a reflective clean-up polarizer for reflecting P-polarized light back to respective said first and second light source and passing S-polarized-light for further processing.

The subject-matter of claim is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as *how to provide* an alternative way of adding red light to a polarized light system. The solution to this problem proposed in claim 1 of the present application is thus considered as involving an inventive step (Article 33(3) PCT).

Claims 2-4 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VIII

The application does not meet the requirements of Article 6 PCT, because claim 1 is

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not clear.

Support in the description

The application does not meet the requirements of Article 6 PCT, because claim 1 is not supported by the description. The reasons therefor are the following:

Claim 1 refers to a first multi-layer filter means for rotating the polarization state of the green light from said first light source to the P-polarization state, while the description states that the first multi-layer filter is a color selective half-wave retarder such as a Red/Cyan ColorSelect plate with the the purpose to convert the S-polarized light component into the P-polarized componentany, (p.3, p.4) without mentioning any alteration to the green light. Claim 1 is therefore not supported by the description as required by Article 6 PCT,

Lack of essential features

The application does not meet the requirements of Article 6 PCT, because claim 1 is lacking essential features. The reasons therefor are the following:

Claim 1 discloses a polarizing beam splitter for combining S-polarized-light from said first light source and P-polarized-light from said second light source. As a consequence, green light from the first light source (which has been converted to P-polarization by the first multi-layer filter), and S-polarized green from the second light source is discarded. Furthermore, the remaining P-polarized green light from the second light source is reflected by the clean-up polarizer, which passes only S-polarized light. Hence, no green light is passed for further processing.

It is clear from the description on page 6 that the objective the apparatus is to provide second light source red light and first light source cyan light. Since no green at all is passed for further processing, this objective is not met. Hence, claim 1 does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.

The vague and imprecise statement in the description on page 6 (*spirit and scope of the present invention*) implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them.

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Remarks

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art D1 being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

According to the requirements of Rule 11.13(I) reference signs not appearing in the description shall not appear in the drawings, and vice versa. This requirement is not met in view of the reference sign 21,21b,22,22b,25,28.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international poulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)